

CAPITAL PROJECT D-1177 WOODMARK STORMWATER MANAGEMENT RETROFIT AND STREAM REHABILITATION PROJECT

Howard County Department of Public Works
Storm Water Management Division



COMMUNITY OUTREACH MEETING
JANUARY 24, 2023

Project Team

- **Howard County Department of Public Works – Stormwater Management Division**

- Mark Richmond, P.E.
- Brian F. Cleary, P.E.



- **McCormick Taylor**

- Andrew McLean, P.E.



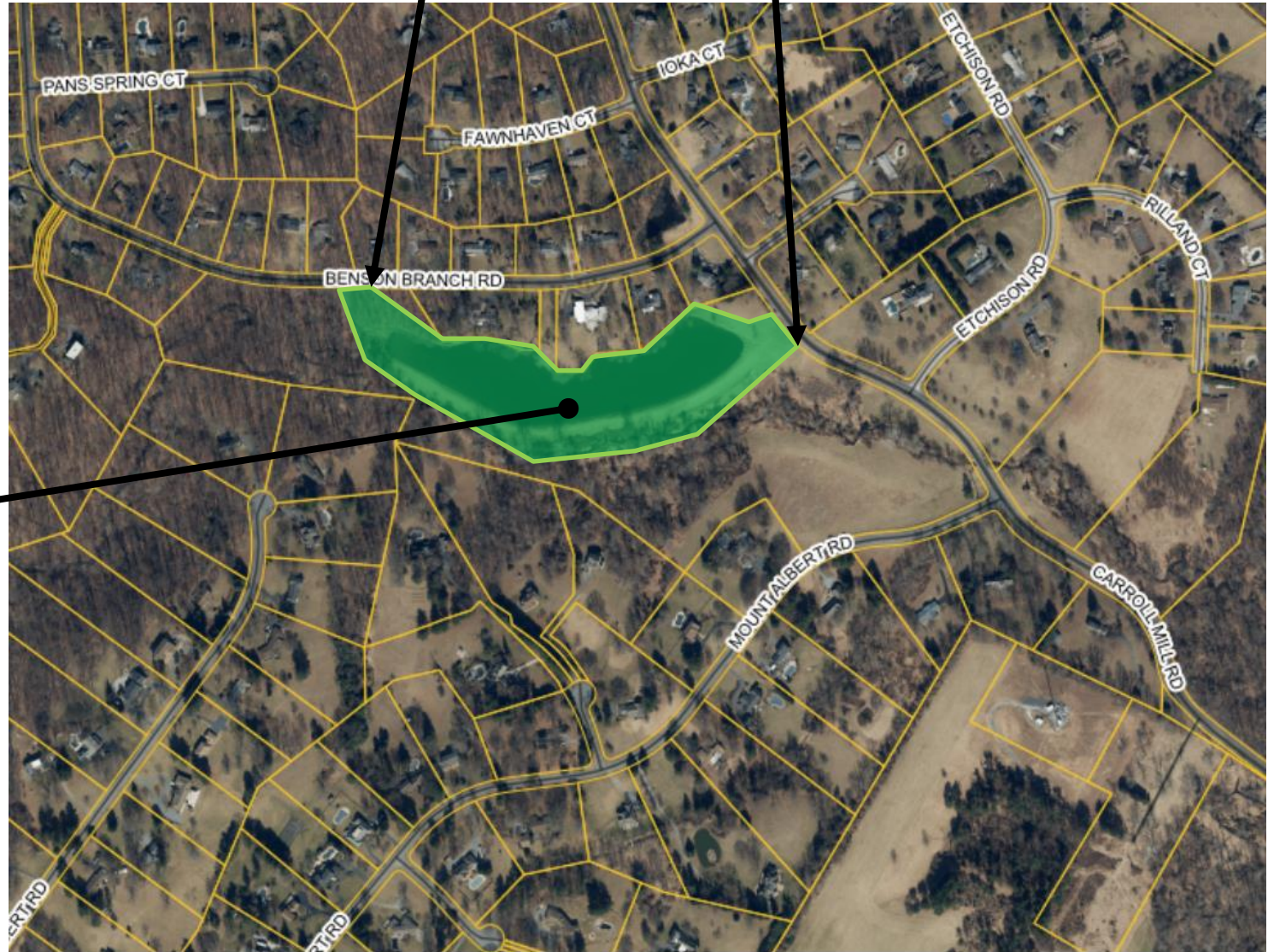
- **Woodmark Community Association**

- Point of Contact – Chris Maus

Location Map

2 CONSTRUCTION
ACCESS POINTS

WOODMARK
STORMWATER
MANAGEMENT
AND STREAM
REHABILITATION
PROJECT AREA





Project Purpose



- **Repair and Retrofit an existing stormwater management pond and rehabilitate the stream along base of embankment**
- **Replace existing riser and principal spillway both which show signs of corrosion and potential failure**
- **Provide a stable stream outfall.**
- **Minimize impacts to tree and wildlife during construction**
- **Meet current Maryland Department of Environment Dam Safety Division requirements**

Typical Earthen Dam

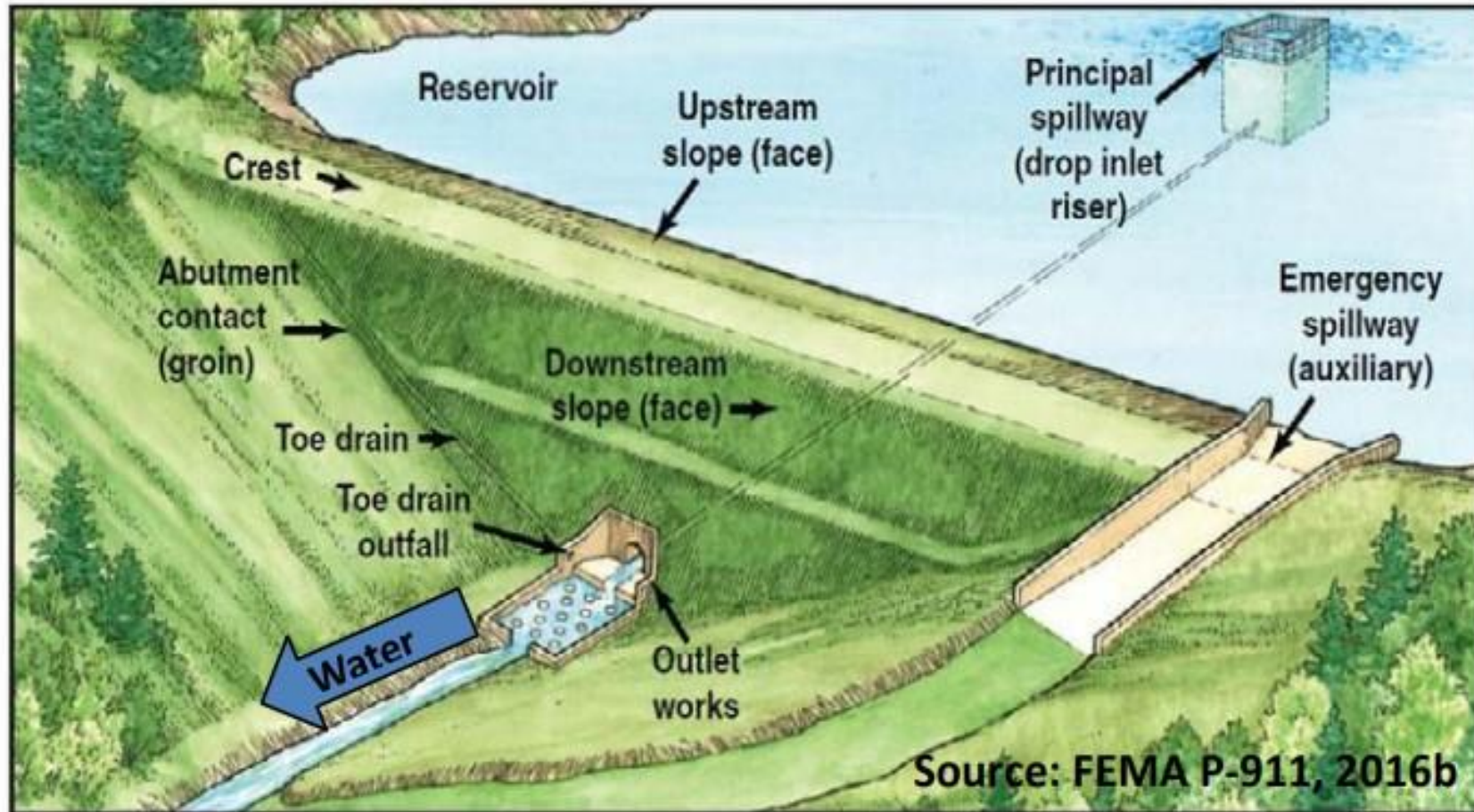
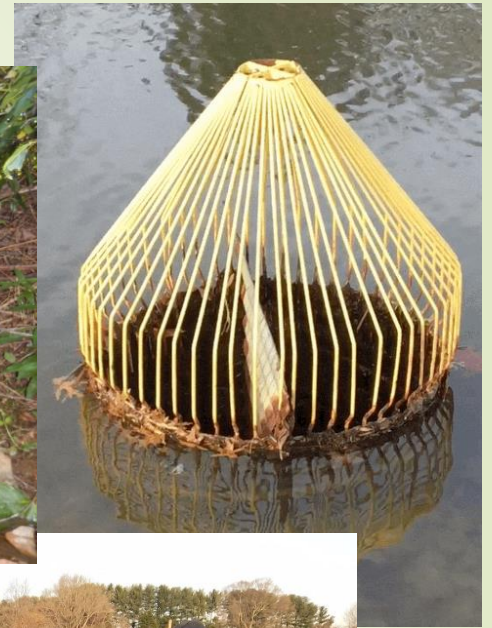


Figure 3: Components of a typical earthen dam (example shows earthen dam)

Existing Site Conditions

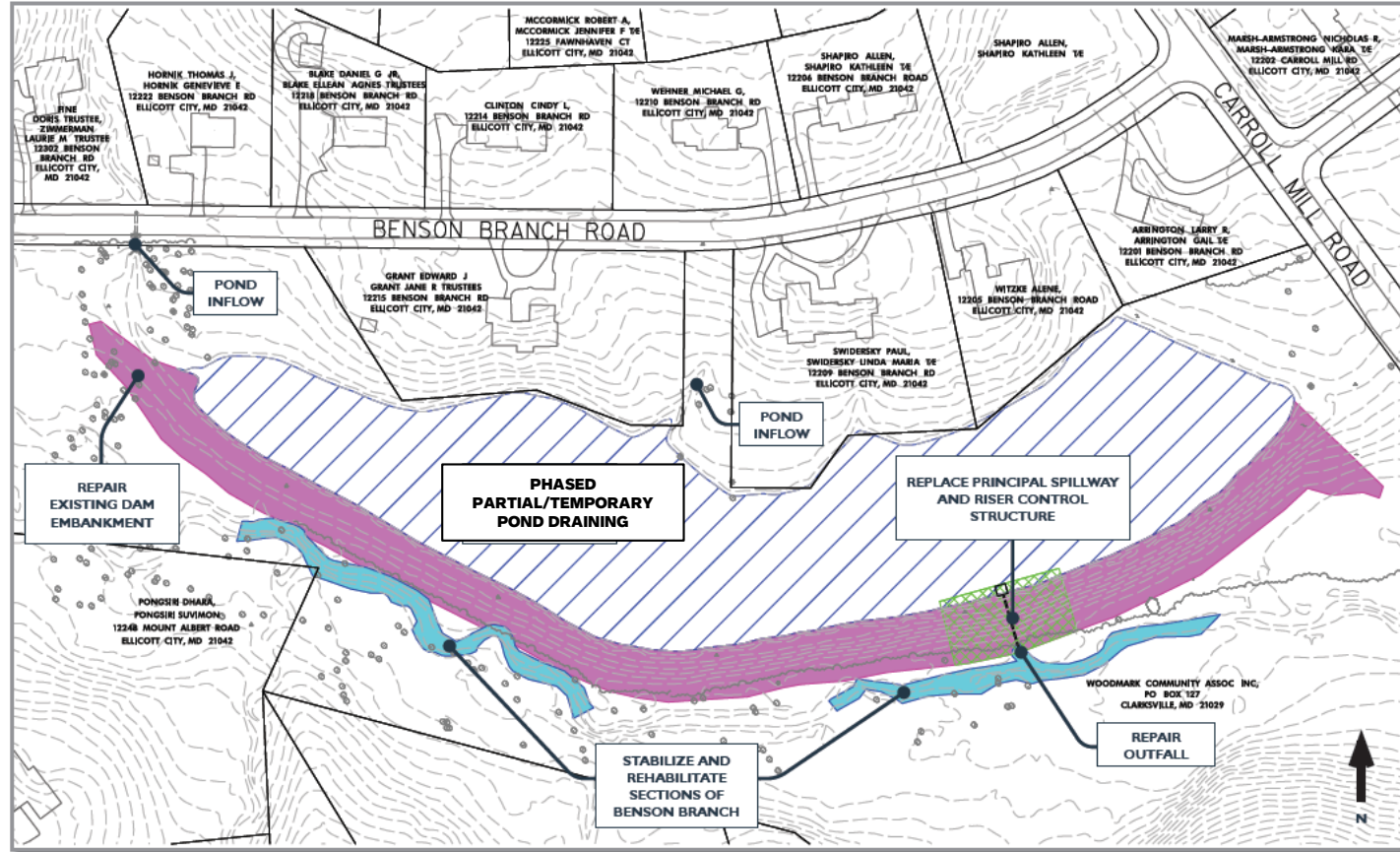
**STREAM BANK EROSION
AT TOE OF POND
EMBANKMENT**



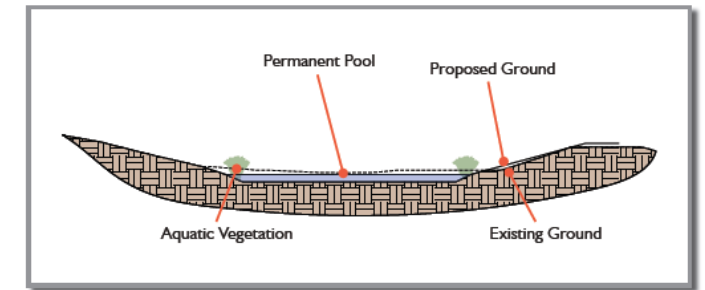
**STORMWATER
MANAGEMENT POND
DEGRADED RISER AND
OUTFALL AND SHORE
EROSION**



Project Site Plan Overview

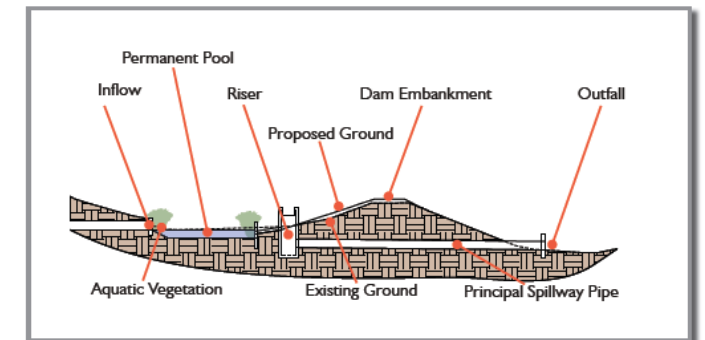


Typical Cross Section



not to scale

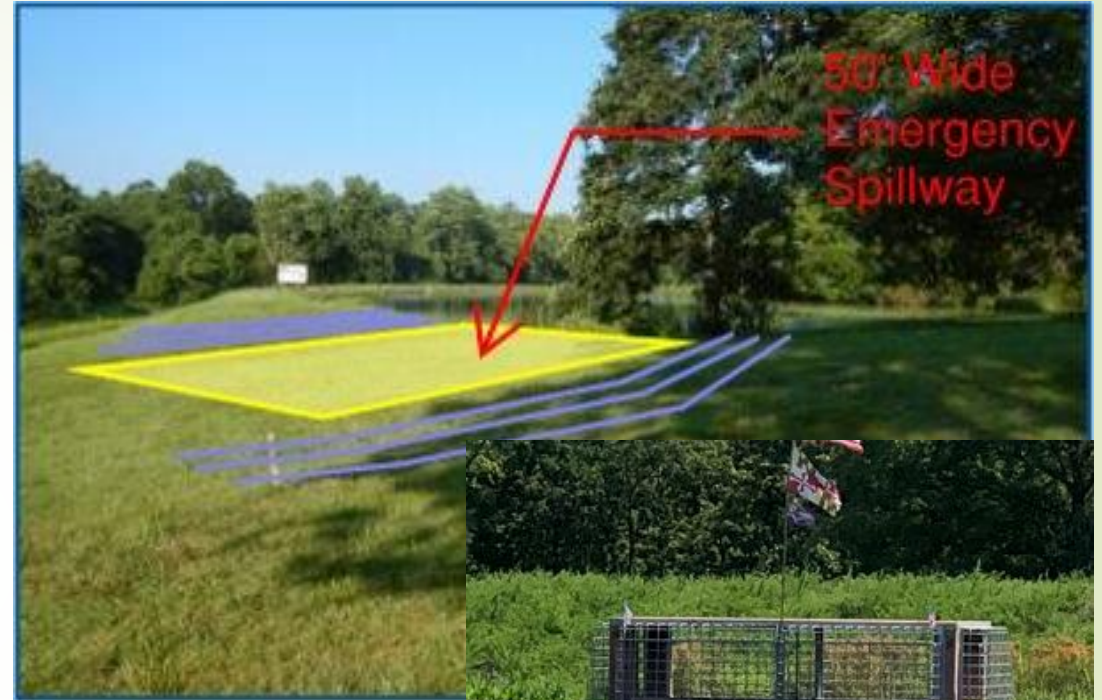
Typical Pipe Profile



not to scale

Project Features/Updates

- Expanded Emergency Spillway based on MDE Dam Safety
- Engineered Matting for additional shoreline and slope erosion control
- Clay liner to provide designed water surface permanent elevation. (Approximately 6" below original level),
- Concrete riser





Replanting Plan

- Replanting by the Numbers
 - 210 – 8'-10', 1" Caliper Trees
 - 141 – 2' high shrubs
 - >600 Streambank plugs
 - >1200 Streambank livestakes



CONSTRUCTION ACCESS



EQUIPMENT & MATERIALS STOCKPILE



POND GRADING & DAM CONSTRUCTION



PLANTING AND LANDSCAPING



EXAMPLE PROJECTS

What to Expect During Construction

- **Construction is anticipated to start FY 24 (August 2023)**
 - Will last approximately 8-12 months, weather dependent
- **Construction Hours**
 - Monday to Friday, 7AM to 7PM
- **Safety**
 - Construction site will be fenced with orange construction safety fence
- **Traffic**
 - Construction vehicles will access site via Carroll Mill Road and Benson Branch Road
- **Temporary Pond**
 - A temporary pond area will be maintained through construction.



Next Steps



- Complete final design plans
- Finalize and execute the deed of easement with exhibit
- Obtain all necessary permits
 - MDE Dam Safety – Currently under review
 - MDE – Currently in review
 - Soil Conservation – Preliminary final approval received
 - NOI – Submit upon final signature
- Advertise project for construction bid and select contractor
- Provide community notification of anticipated construction start and post signs approximately 30 days prior to start.
- Construction is anticipated to start FY 24 (August 2023) with an approximate duration of 8-12 months

WOODMARK STORMWATER MANAGEMENT RETROFIT AND STREAM REHABILITATION PROJECT



QUESTIONS?

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A copy of the presentation can be found at:

<https://www.howardcountymd.gov/public-works/community-involvement>